

From 24<sup>th</sup> August 1895

To

July 28 1896

3648-

Agd

Vol. 3612 - 3637

Next Hyd. No. 3648  
" Dr. " 3612  
" Int. " 64

|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

### SERIAL TEMPERATURES.

| DEPTH. | TEMP. ° | NO. OF THER. | COR. | COR. TEMP. |
|--------|---------|--------------|------|------------|
| 25     |         |              |      |            |
| 50     |         |              |      |            |
| 100    |         |              |      |            |
| 200    |         |              |      |            |
| 300    |         |              |      |            |
| 400    |         |              |      |            |
| 500    |         |              |      |            |
| 600    |         |              |      |            |
| 700    |         |              |      |            |
| 800    |         |              |      |            |
| 900    |         |              |      |            |
| 1000   |         |              |      |            |

REMARKS:

*J.H.* 54.50.55 N 166.21.5 W

No. *3648* Hyd. Date *Aug 24/95*  
Tanner Machine. Reel.

Turns *91* Cor. + *4*

Depth *95 fms*

Shot or lead *26 lbs*

Bottom *gn M S.*

Bottom temperature *38.0*

No. of thermometer *78370*

Cor. *-0.2*

Corrected temperature *37.8*

Air *47* Surface *46*

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

|                 |                 |           |  |
|-----------------|-----------------|-----------|--|
| <i>PM.</i>      | <i>PM.</i>      |           |  |
| <i>11.21.45</i> | <i>24.05</i>    | <i>0</i>  |  |
| <i>22.30</i>    | <i>11.22.35</i> | <i>91</i> |  |
|                 |                 | 200       |  |
|                 |                 | 300       |  |
|                 |                 | 400       |  |
|                 |                 | 500       |  |
|                 |                 | 600       |  |
|                 |                 | 700       |  |
|                 |                 | 800       |  |
|                 |                 | 900       |  |
|                 |                 | 1000      |  |
|                 |                 | 1100      |  |
|                 |                 | 1200      |  |
|                 |                 | 1300      |  |
|                 |                 | 1400      |  |
|                 |                 | 1500      |  |
|                 |                 | 1600      |  |
|                 |                 | 1700      |  |
|                 |                 | 1800      |  |
|                 |                 | 1900      |  |
|                 |                 | 2000      |  |
|                 |                 | 2100      |  |
|                 |                 | 2200      |  |
|                 |                 | 2300      |  |
|                 |                 | 2400      |  |

|  |      |        |
|--|------|--------|
|  | 2500 |        |
|  | 2600 |        |
|  | 2700 |        |
|  | 2800 |        |
|  | 2900 |        |
|  | 3000 | 543 12 |
|  | 3100 | 91     |
|  | 3200 | 452    |
|  | 3300 |        |
|  | 3400 |        |
|  | 3500 |        |
|  | 3600 |        |
|  | 3700 |        |
|  | 3800 |        |
|  | 3900 |        |
|  | 4000 |        |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*S.S. 42* 54.41 N 166.15 W

No. *3649* *47d* Date *Aug 25 1895*  
*Tanner* Machine. Reel.

Turns *164* Cor. + *7* Depth *171 fms.*

Shot or lead *36 lb*

Bottom *Prk.*

Bottom temperature *37.9*

No. of thermometer *78510* Cor. *-0.2*

Corrected temperature *37.7*

Air *47* Surface *45* Drift

Trawl or dredge

| SOUNDING WIRE.  |                 | TURNS.                | DREDGE ROPE. |     |
|-----------------|-----------------|-----------------------|--------------|-----|
| DOWN.           | UP.             |                       | DOWN.        | UP. |
| <i>12.44.30</i> | <i>50.45</i>    | 0                     |              |     |
| <i>45.15</i>    | <i>46.48</i>    | 100                   |              |     |
| <i>46.00</i>    | <i>12.46.00</i> | ( <i>164</i> )<br>200 |              |     |
|                 |                 | 300                   |              |     |
|                 |                 | 400                   |              |     |
|                 |                 | 500                   |              |     |
|                 |                 | 600                   |              |     |
|                 |                 | 700                   |              |     |
|                 |                 | 800                   |              |     |
|                 |                 | 900                   |              |     |
|                 |                 | 1000                  |              |     |
|                 |                 | 1100                  |              |     |
|                 |                 | 1200                  |              |     |
|                 |                 | 1300                  |              |     |
|                 |                 | 1400                  |              |     |
|                 |                 | 1500                  |              |     |
|                 |                 | 1600                  |              |     |
|                 |                 | 1700                  |              |     |
|                 |                 | 1800                  |              |     |
|                 |                 | 1900                  |              |     |
|                 |                 | 2000                  |              |     |
|                 |                 | 2100                  |              |     |
|                 |                 | 2200                  |              |     |
|                 |                 | 2300                  |              |     |
|                 |                 | 2400                  |              |     |

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

543 12  
164 5  
379 7  
164  
171

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     | 45    | —            | —    | 45.0       |
| 50     | 44    | 62358        | -0.2 | 43.8       |
| 100    | 43.5  | 63902        | —    | 43.5       |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

507.

*Sigsbee* <sup>43</sup> 54° 32' N 166° 09' W.

No. 3650 Hyd Date Aug 25 '18

Tanner Machine. Reel.

Turns 255 Cor. + 9

Depth 264 fms

Shot or lead 26 lb

Bottom Rky

Bottom temperature 38.

No. of thermometer 78510

Cor. 0.2

Corrected temperature 37.8

Air 44

Surface 45

Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

2.01.30

10.55

0

02.30

08.58

100

04.40

06.35

200

05.30

2.05.40

255  
300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*July 27.5*



2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

543

255

288

12

3

9

255

264

## SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     | 45    | —            | —    | 45.6       |
| 50     | 44    | 62358        | -0.2 | 43.8       |
| 100    | 44    | 63902        | —    | 44.0       |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

607.

No.

3651 Hyd.

Date

Sept. 24, '95

Machine.

Reed.

Turns

42

Cor. +

2

Depth

44 fms

Shot or lead

36 lb

Bottom

Rgy.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

| DOWN.   | UP. | TURNS. | DOWN. | UP. |
|---------|-----|--------|-------|-----|
| 1.28.00 |     | 0      |       |     |
|         |     | 100    |       |     |
|         |     | 200    |       |     |
|         |     | 300    |       |     |
|         |     | 400    |       |     |
|         |     | 500    |       |     |
|         |     | 600    |       |     |
|         |     | 700    |       |     |
|         |     | 800    |       |     |
|         |     | 900    |       |     |
|         |     | 1000   |       |     |
|         |     | 1100   |       |     |
|         |     | 1200   |       |     |
|         |     | 1300   |       |     |
|         |     | 1400   |       |     |
|         |     | 1500   |       |     |
|         |     | 1600   |       |     |
|         |     | 1700   |       |     |
|         |     | 1800   |       |     |
|         |     | 1900   |       |     |
|         |     | 2000   |       |     |
|         |     | 2100   |       |     |
|         |     | 2200   |       |     |
|         |     | 2300   |       |     |
|         |     | 2400   |       |     |

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*J. K. D. Bellingham Bay, September 30*

No. *3615* Date *Sept 30*

Machine. Reel.

Turns Cor. + Depth *11 fms*

Shot or lead *Lead*

Bottom *gn. M.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature *3/10'*

Air *56* Surface *52* Drift *N. 1/2 W.*

Trawl or dredge *Beam trawl*

SOUNDING WIRE.

DOWN.

UP.

\* TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*8.32.00*  
*3.00*  
*8.01.00*  
*8.59.00*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

61 (6 sps) Flounder; 1 lge Starry D.  
12 Gel Boats. 6 (2 sps) Sculpin.  
6 Pike Fish; 1 pm. Red Rock Fish.  
6 lge Sculpin (2 sps); many small ones (6 sps).  
few worms; 1 sp. shrimp; few Ophiurids.  
a few Urin.

No. *507* Date *Oct 20 '95*

Machine. Reel.

Turns Cor. + Depth

~~Shot or lead~~ *Hand lead*

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *Small beam,*

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
|                |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

No.

Date

Machine.

Reel.

Turns 178 Cor. + 7

Depth 185 fms

Shot or lead 26 lbs.

Bottom

fine gy. &amp; blk S.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

1 31 20

07 15

0

05 55

07 15

100

06 50

1 06 05

178

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



|  |      |      |      |
|--|------|------|------|
|  | 2500 |      |      |
|  | 2600 |      |      |
|  | 2700 |      |      |
|  | 2800 |      |      |
|  | 2900 |      |      |
|  | 3000 |      |      |
|  | 3100 |      |      |
|  | 3200 |      |      |
|  | 3300 | 5.3  | 1.2  |
|  | 3400 | 17.8 | 5    |
|  | 3500 | 3.65 | 7    |
|  | 3600 |      | 17.5 |
|  | 3700 |      | 18.5 |
|  | 3800 |      |      |
|  | 3900 |      |      |
|  | 4000 |      |      |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*Not for record*

No.

Date

*Oct 18 1895*

*Tanner* Machine. Reel.

Turns *511* Cor. + *12*Depth *523 fms*Shot or lead *36 lb.*Bottom *fine gy. s.*Bottom temperature *—*No. of thermometer *—*

Cor.

Corrected temperature *—*Air *50* Surface *50*

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

|              |              |      |
|--------------|--------------|------|
| <i>11:40</i> | <i>11:40</i> | 0    |
| <i>11:41</i> | <i>11:41</i> | 100  |
| <i>11:42</i> | <i>11:42</i> | 200  |
| <i>11:43</i> | <i>11:43</i> | 300  |
| <i>11:44</i> | <i>11:44</i> | 400  |
| <i>11:45</i> | <i>11:45</i> | 500  |
| <i>11:46</i> | <i>11:46</i> | 600  |
| <i>11:47</i> | <i>11:47</i> | 700  |
| <i>11:48</i> | <i>11:48</i> | 800  |
| <i>11:49</i> | <i>11:49</i> | 900  |
| <i>11:50</i> | <i>11:50</i> | 1000 |
| <i>11:51</i> | <i>11:51</i> | 1100 |
| <i>11:52</i> | <i>11:52</i> | 1200 |
| <i>11:53</i> | <i>11:53</i> | 1300 |
| <i>11:54</i> | <i>11:54</i> | 1400 |
| <i>11:55</i> | <i>11:55</i> | 1500 |
| <i>11:56</i> | <i>11:56</i> | 1600 |
| <i>11:57</i> | <i>11:57</i> | 1700 |
| <i>11:58</i> | <i>11:58</i> | 1800 |
| <i>11:59</i> | <i>11:59</i> | 1900 |
| <i>12:00</i> | <i>12:00</i> | 2000 |
| <i>12:01</i> | <i>12:01</i> | 2100 |
| <i>12:02</i> | <i>12:02</i> | 2200 |
| <i>12:03</i> | <i>12:03</i> | 2300 |
| <i>12:04</i> | <i>12:04</i> | 2400 |

|  |      |         |
|--|------|---------|
|  | 2500 |         |
|  | 2600 |         |
|  | 2700 |         |
|  | 2800 |         |
|  | 2900 |         |
|  | 3000 |         |
|  | 3100 | 543 12  |
|  | 3200 | 511 511 |
|  | 3300 | 32 52   |
|  | 3400 |         |
|  | 3500 |         |
|  | 3600 |         |
|  | 3700 |         |
|  | 3800 |         |
|  | 3900 |         |
|  | 4000 |         |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

Not for record

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

367

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

|  |      |           |
|--|------|-----------|
|  | 2500 |           |
|  | 2600 |           |
|  | 2700 |           |
|  | 2800 |           |
|  | 2900 |           |
|  | 3000 | 21.0 16.8 |
|  | 3100 | 15.7      |
|  | 3200 | 12.7      |
|  | 3300 | 10.2      |
|  | 3400 | 8.7       |
|  | 3500 |           |
|  | 3600 |           |
|  | 3700 |           |
|  | 3800 |           |
|  | 3900 |           |
|  | 4000 |           |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*Not for record*

No. *7*Date *Feb*Machine. *Tanner*

Reel.

Turns *57* Cor. + *2*Depth *59*Shot or lead *26 lb.*Bottom *R. M.*Bottom temperature *49.0*No. of thermometer *62358*

Cor.

Corrected temperature

Air *52*Surface *53*

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*Net*  
*9,34.00 9,34.10*  
*34.30 9,34.20*

0  
~~100~~  
 200  
 300  
 400  
 500  
 600  
 700  
 800  
 900  
 1000  
 1100  
 1200  
 1300  
 1400  
 1500  
 1600  
 1700  
 1800  
 1900  
 2000  
 2100  
 2200  
 2300  
 2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

576  
51  
292

17  
10  
51  
23

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

No.

Date

Machine.

Reel.

Turns 26 Cor. + 1

Depth 27 m

Shot or lead 26 lb.

Bottom bk S.R. + fine

Bottom temperature

No. of thermometer 6256 Cor.

Corrected temperature

Air 52 Surface 53 Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10,04,70 10,05,00

10,05,30 10,06,00

0

27

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



|  |      |        |
|--|------|--------|
|  | 2500 |        |
|  | 2600 |        |
|  | 2700 |        |
|  | 2800 |        |
|  | 2900 |        |
|  | 3000 | 543 12 |
|  | 3100 | 20 11  |
|  | 3200 | 51 1   |
|  | 3300 | 1 25   |
|  | 3400 | 27     |
|  | 3500 |        |
|  | 3600 |        |
|  | 3700 |        |
|  | 3800 |        |
|  | 3900 |        |
|  | 4000 |        |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

Not for record

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

~~Shot or lead~~

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

10,40,50

41,35

10,41,50

0  
25  
100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

|  |      |       |
|--|------|-------|
|  | 2500 |       |
|  | 2600 |       |
|  | 2700 |       |
|  | 2800 |       |
|  | 2900 |       |
|  | 3000 | 57-8  |
|  | 3100 | 2     |
|  | 3200 | 14 28 |
|  | 3300 |       |
|  | 3400 |       |
|  | 3500 |       |
|  | 3600 |       |
|  | 3700 |       |
|  | 3800 |       |
|  | 3900 |       |
|  | 4000 |       |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

No. 3613 Date March 31

Machine. Reel.

Turns Cor. + Depth 57 fms

~~Shot or lead~~

Bottom m. sh.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 76 Surface 63 Drift N 1/2 W 1/2 W

Trawl or dredge ~~Lead~~ 1/2 "

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| 9, 15          |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |

|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

# REMARKS:

*From surface depths, 1 hour  
flooding.*

No. *3614* Date *Mar 21*

Machine. Reel.

Turns Cor. + Depth *4 1/2 fms*~~Shot or lead~~Bottom *Mr. sh*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *70* Surface *68* Drift *N 10° E*Trawl or dredge *beam* *1/2 mile*

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| <i>16.25</i>   |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

*Small Secchi,*

No. 3615 Date Mar 21

Machine. Reel.

Turns Cor. + Depth 57 fms

~~Shot or lead~~

Bottom M. sh.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 70 Surface 63 Drift N W 1/2 W

Trawl or dredge 1/2 min

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| pm<br>12       |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |



|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

#### SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

#### REMARKS:

*Bottom found dead & broken shells; all in one bottle.*

No. *3616* Date *Mar 31*

Machine. Reel.

Turns Cor. + Depth *5*~~Shot or lead~~Bottom *M & S*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *72* Surface *63* Drift *N 8 W*  
*1/2 mile*

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

| DOWN.           | UP.      | TURNS. | DOWN. | UP. |
|-----------------|----------|--------|-------|-----|
| <i>P. 11:05</i> | <i>1</i> | 0      |       |     |
|                 |          | 100    |       |     |
|                 |          | 200    |       |     |
|                 |          | 300    |       |     |
|                 |          | 400    |       |     |
|                 |          | 500    |       |     |
|                 |          | 600    |       |     |
|                 |          | 700    |       |     |
|                 |          | 800    |       |     |
|                 |          | 900    |       |     |
|                 |          | 1000   |       |     |
|                 |          | 1100   |       |     |
|                 |          | 1200   |       |     |
|                 |          | 1300   |       |     |
|                 |          | 1400   |       |     |
|                 |          | 1500   |       |     |
|                 |          | 1600   |       |     |
|                 |          | 1700   |       |     |
|                 |          | 1800   |       |     |
|                 |          | 1900   |       |     |
|                 |          | 2000   |       |     |
|                 |          | 2100   |       |     |
|                 |          | 2200   |       |     |
|                 |          | 2300   |       |     |
|                 |          | 2400   |       |     |

|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

# REMARKS:

1 small flower, for study.  
2 sp. 4 small ocher.

No.

3617

Date

Mar 31

Machine.

Reel.

Turns

Cor. +

Depth

5 1/2

~~Shot or lead~~

Bottom

M. sh.

Bottom temperature.

No. of thermometer

Cor.

Corrected temperature

Air

72

Surface

43

Drift

N 1

Trawl or dredge

1/2 m. sh.

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

11:50

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

2 small flowers, for ship  
 125. 500m. surface of  
 mud & broken shells

No. 3618

Date Mar 3.

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom M. sh

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 72 Surface 63 Drift N 1/2 W

Trawl or dredge 1/2 mile

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| 2, 35          |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |

|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

#### SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

#### REMARKS:

One very large washed corals (few)  
 which gave off a dirty purple ink -  
 few shrimp, 3 sp. 1 few with hard  
 few small crabs.

No. 3619 Date Mar 31

Machine. Reel.

Turns Cor. +

Depth 4 fms

Shot or lead

Bottom M. sh.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 74 Surface 43

Drift WNW

Trawl or dredge

1/2 mile

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

300

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

# REMARKS:

1 small *Antiparus*, few *Alcedo* 80%  
*Spongia*, *Strigidae* *acuminatus*,  
1 large *Strigidae* (white)

No. *3620* Date *21 June 1901*

Machine. , Reel.

Turns Cor. + Depth *6 fms*~~Shot or lead~~Bottom *M. sh.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *74* Surface *63* Drift *WXN*Trawl or dredge *long* *1/2 mile*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*3.5*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

2 small flowers, few spores  
 2 sp. Sponges, few Hydroids,  
 174 small corals, some Ascidians,  
 1 large white Ascidian

No. *3621* Date *Apr 1*  
 Machine. Reel.  
 Turns Cor. + Depth *6 1/2 fms.*  
 Shot or lead  
 Bottom *M.S.*  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air *72* Surface *61* Drift *N 1/2 N*  
 Trawl or dredge

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| <i>0</i>       |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

Travel listed with about 1000  
 & 2000 ft. depth, several large  
 shells, 1 specimen from 1000 ft.  
 by 1000 ft. from 1000 ft. to 1000 ft.  
 & large redwood specimens.

No. 3222

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom M. S.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

10.45

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

#### SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

#### REMARKS:

*Log not contained in section  
but - broken down shell  
specimens saved.*

No. 3623 Date *Apr 1*

Machine. Reel.

Turns Cor. + Depth *6 1/2*

Shot or lead

Bottom *S.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *73* Surface *63* Drift *N x E*

Trawl or dredge

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| <i>1.05</i>    |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

1/2 ft. sand bottom  
and found fossils with  
kelp.

No. *3624* Date

Machine.

Reel.

Turns

Cor. +

Depth

*5 fms*

Shot or lead

Bottom *M. S.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

*63*

Drift

*NE 1/2*

Trawl or dredge

| SOUNDING WIRE.  |     | TURNS. | DREDGE ROPE. |     |
|-----------------|-----|--------|--------------|-----|
| DOWN.           | UP. |        | DOWN.        | UP. |
| <i>1. 4. 15</i> |     | 0      |              |     |
|                 |     | 100    |              |     |
|                 |     | 200    |              |     |
|                 |     | 300    |              |     |
|                 |     | 400    |              |     |
|                 |     | 500    |              |     |
|                 |     | 600    |              |     |
|                 |     | 700    |              |     |
|                 |     | 800    |              |     |
|                 |     | 900    |              |     |
|                 |     | 1000   |              |     |
|                 |     | 1100   |              |     |
|                 |     | 1200   |              |     |
|                 |     | 1300   |              |     |
|                 |     | 1400   |              |     |
|                 |     | 1500   |              |     |
|                 |     | 1600   |              |     |
|                 |     | 1700   |              |     |
|                 |     | 1800   |              |     |
|                 |     | 1900   |              |     |
|                 |     | 2000   |              |     |
|                 |     | 2100   |              |     |
|                 |     | 2200   |              |     |
|                 |     | 2300   |              |     |
|                 |     | 2400   |              |     |

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

*Trawl hauled with netting*

No. 3625 Date Apr 1

Machine. Reel.

Turns Cor. + Depth 6

Shot or lead

Bottom M.S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 72 Surface 63 Drift

Trawl or dredge

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| 2.20           |     | 0      |              |     |
|                |     | 100    |              |     |
|                |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

1 qt. Seawater, 100 cc. for analysis.

No. *3026* Date *Apr 1*

Machine. Reel.

Turns Cor. + Depth *7*

Shot or lead

Bottom *m. S.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *72* Surface *63* Drift *E x N 1/2 N*

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

## TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

1 Variation, Spring, small  
Crabs, Sea urchins, 1 pt. of  
white mussels on bottom.

33° 06' 20" = 119° 17' 75"

No. 566 Date July 15 1896

Machine. Reel.

Turns 835 Cor. + 57 Depth 892

Shot or lead 35 lbs.

Bottom fine S. M.

Bottom temperature 38.4

No. of thermometer 61546 Cor. + 0.2

Corrected temperature 39.1

Air 58 Surface 56 Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

|          |  |      |                          |   |
|----------|--|------|--------------------------|---|
| 10.42.43 |  | 0    | 11.12.55                 | 5 |
| 43.50    |  | 70   |                          |   |
|          |  | 100  | 12.12.11.30.20           |   |
| 44.50    |  | 200  |                          |   |
|          |  | 300  |                          |   |
|          |  | 400  | Shot not true 1st 25 fms |   |
|          |  | 500  | W. 100 yds. back 15 sec. |   |
|          |  | 600  |                          |   |
|          |  | 700  |                          |   |
|          |  | 800  |                          |   |
|          |  | 825  |                          |   |
|          |  | 900  |                          |   |
|          |  | 1000 |                          |   |
|          |  | 1100 |                          |   |
|          |  | 1200 |                          |   |
|          |  | 1300 |                          |   |
|          |  | 1400 |                          |   |
|          |  | 1500 |                          |   |
|          |  | 1600 |                          |   |
|          |  | 1700 |                          |   |
|          |  | 1800 |                          |   |
|          |  | 1900 |                          |   |
|          |  | 2000 |                          |   |
|          |  | 2100 |                          |   |
|          |  | 2200 |                          |   |
|          |  | 2300 |                          |   |
|          |  | 2400 |                          |   |



|  |      |      |     |
|--|------|------|-----|
|  | 2500 |      |     |
|  | 2600 |      |     |
|  | 2700 |      |     |
|  | 2800 |      |     |
|  | 2900 |      |     |
|  | 3000 |      |     |
|  | 3100 |      |     |
|  | 3200 |      |     |
|  | 3300 |      |     |
|  | 3400 |      |     |
|  | 3500 |      |     |
|  | 3600 | 1100 | 100 |
|  | 3700 | 535  | 101 |
|  | 3800 | 5034 | 50  |
|  | 3900 |      | 101 |
|  | 4000 |      | 102 |

SERIAL TEMPERATURES.

| DEPTH.  | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|---------|-------|--------------|------|------------|
| Surf/25 | 56    |              |      | 56.0       |
| 5-60    | 56    | 68902        | -    | 56.0       |
| 10-100  | 55-   | 78518        | -0.4 | 54.6       |
| 200     |       |              |      |            |
| 300     |       |              |      |            |
| 400     |       |              |      |            |
| 500     |       |              |      |            |
| 600     |       |              |      |            |
| 700     |       |              |      |            |
| 800     |       |              |      |            |
| 900     |       |              |      |            |
| 1000    |       |              |      |            |

REMARKS:

Caught in fish net.

Small crustacea, no gills, etc.  
 half dozen small fish

32° 44' N. = 119° 32' W.

No. 3627 Date May 1906Machine. ReelReel. ReelTurns 725 Cor. + 57Depth 776 fmsShot or lead 35Bottom gy. m. s.Bottom temperature 39.0No. of thermometer 61576Cor. + 0.7Corrected temperature 39.2Air 55Surface 55

Drift

Trawl or dredge Small Beam

## SOUNDING WIRE.

## DREDGE ROPE.

| DOWN.   | UP.     | TURNS. | DOWN.   | UP.     |
|---------|---------|--------|---------|---------|
| 2-26.20 | 2.49.50 | 0      | 2.26.00 | 2.49.50 |
| 27.35   | 48.00   | 100    | 27.40   | 51.00   |
| 28.40   | 47.50   | 200    | 28.30   | 53.30   |
| 29.45   | 45.50   | 300    | 3.03.00 | 55.15   |
| 31.10   | 44.40   | 400    | 06.20   | 57.25   |
| 32.20   | 43.30   | 500    | 10.10   | 49.15   |
| 34.30   | 42.00   | 600    | 13.40   | 46.10   |
| 36.35   | 2.46.30 | 700    | 17.10   | 42.50   |
| 2.56.50 | 2.37.30 | 725    | 21.50   | 39.45   |
|         |         | 800    | 27.10   | 36.30   |
|         |         | 900    | 32.00   | 33.00   |
|         |         | 1000   | 36.30   | 29.50   |
|         |         | 1100   | 40.50   | 25.30   |
|         |         | 1200   | 44.20   | 21.30   |
|         |         | 1300   | 48.10   | 17.30   |
|         |         | 1400   | 3.52.00 | 13.00   |
|         |         | 1500   |         |         |
|         |         | 1600   |         |         |
|         |         | 1700   |         |         |
|         |         | 1800   |         |         |
|         |         | 1900   |         |         |
|         |         | 2000   |         |         |
|         |         | 2100   |         |         |
|         |         | 2200   |         |         |
|         |         | 2300   |         |         |
|         |         | 2400   |         |         |

|      |      |     |
|------|------|-----|
| 2500 |      |     |
| 2600 |      |     |
| 2700 |      |     |
| 2800 |      |     |
| 2900 |      |     |
| 3000 | 4169 | 158 |
| 3100 | 725  | 107 |
| 3200 | 3144 | 51  |
| 3300 |      | 725 |
| 3400 |      | 776 |
| 3500 |      |     |
| 3600 |      |     |
| 3700 |      |     |
| 3800 |      |     |
| 3900 |      |     |
| 4000 |      |     |

## SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| Surf   | 55    |              |      | 55.0       |
| 25     | 55    |              |      |            |
| 50     | 55    | 73           | -0.4 | 54.6       |
| 100    | 55    | 63502        | -    | 55.0       |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS: .

Volnue, 2 Pycnogonids, 1/2 dozen soft shells

744 32° 36' 30" = 119° 20' W,

No. 2653 Date Dec 13/06  
 Sigsbee Machine. Reel. 2  
 Turns 167 Cor. + 3 Depth 180

Shot or lead

Bottom fine gy S.

Bottom temperature 45.2

No. of thermometer 61058 Cor. + 0.5

Corrected temperature 45.4

Air 55 Surface 55 Drift

Trawl or dredge

| SOUNDING WIRE. |         | TURNS. | DREDGE ROPE. |     |
|----------------|---------|--------|--------------|-----|
| DOWN.          | UP.     |        | DOWN.        | UP. |
| 6.21.20        | 7.07.55 | 0      |              |     |
|                |         | 100    |              |     |
| 7.55.56        | 6.42.35 | 167    |              |     |
|                |         | 200    |              |     |
|                |         | 300    |              |     |
|                |         | 400    |              |     |
|                |         | 500    |              |     |
|                |         | 600    |              |     |
|                |         | 700    |              |     |
|                |         | 800    |              |     |
|                |         | 900    |              |     |
|                |         | 1000   |              |     |
|                |         | 1100   |              |     |
|                |         | 1200   |              |     |
|                |         | 1300   |              |     |
|                |         | 1400   |              |     |
|                |         | 1500   |              |     |
|                |         | 1600   |              |     |
|                |         | 1700   |              |     |
|                |         | 1800   |              |     |
|                |         | 1900   |              |     |
|                |         | 2000   |              |     |
|                |         | 2100   |              |     |
|                |         | 2200   |              |     |
|                |         | 2300   |              |     |
|                |         | 2400   |              |     |

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
|      |     | 3400 |  |
| 116  | 135 | 3500 |  |
| 167  | 145 | 3600 |  |
| 4002 | 13  | 3700 |  |
|      | 167 | 3800 |  |
|      | 180 | 3900 |  |
|      |     | 4000 |  |

# SERIAL TEMPERATURES.

| DEPTH.  | TEMP. | NO. OF THERM | COR. | COR. TEMP. |
|---------|-------|--------------|------|------------|
| Surface | 53-   |              |      | 55.0       |
| 25      |       |              |      |            |
| 5       | 53-   | 3855         | -0.4 | 54.6       |
| 50      |       |              |      |            |
| 10      | 54    | 6000         | -    | 54.0       |
| 100     |       |              |      |            |
| 200     |       |              |      |            |
| 300     |       |              |      |            |
| 400     |       |              |      |            |
| 500     |       |              |      |            |
| 600     |       |              |      |            |
| 700     |       |              |      |            |
| 800     |       |              |      |            |
| 900     |       |              |      |            |
| 1000    |       |              |      |            |

REMARKS:

- 32° 30' N. = 119° 42' W.

No. 3654 Date July 14  
Sigsbee Machine. Reel. 11

Turns 615 Cor. + 44 Depth 659

Shot or lead

Bottom cr. m. s.

Bottom temperature 38.4

No. of thermometer 11510 Cor. +0.2

Corrected temperature 38.6

Air 55 Surface 55 Drift

Trawl or dredge

| SOUNDING WIRE. |       | TURNS. | DREDGE ROPE. |     |
|----------------|-------|--------|--------------|-----|
| DOWN.          | UP.   |        | DOWN.        | UP. |
| 7-57.40        | 07.14 | 0      |              |     |
| 58.25          |       | 100    |              |     |
| 59.50          |       | 200    |              |     |
| 01.15          | 08.11 | 300    |              |     |
| 02.40          | 09.11 | 400    |              |     |
| 04.05          | 10.11 | 500    |              |     |
| 8 05.20        | 11.11 | 600    |              |     |
| 01 35          | 12.11 | 615    |              |     |
|                |       | 700    |              |     |
|                |       | 800    |              |     |
|                |       | 900    |              |     |
|                |       | 1000   |              |     |
|                |       | 1100   |              |     |
|                |       | 1200   |              |     |
|                |       | 1300   |              |     |
|                |       | 1400   |              |     |
|                |       | 1500   |              |     |
|                |       | 1600   |              |     |
|                |       | 1700   |              |     |
|                |       | 1800   |              |     |
|                |       | 1900   |              |     |
|                |       | 2000   |              |     |
|                |       | 2100   |              |     |
|                |       | 2200   |              |     |
|                |       | 2300   |              |     |
|                |       | 2400   |              |     |

|       |    |      |  |
|-------|----|------|--|
|       |    | 2500 |  |
|       |    | 2600 |  |
|       |    | 2700 |  |
|       |    | 2800 |  |
|       |    | 2900 |  |
|       |    | 3000 |  |
|       |    | 3100 |  |
|       |    | 3200 |  |
|       |    | 3300 |  |
|       |    | 3400 |  |
| 615   | 10 | 3500 |  |
| 35511 | 24 | 3600 |  |
|       |    | 3700 |  |
|       |    | 3800 |  |
|       |    | 3900 |  |
|       |    | 4000 |  |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 5-100  | 55    |              |      | 55.0       |
| 5-150  | 55    | 78570        | -0.4 | 54.6       |
| 10-100 | 54    | 63902        | -    | 54.0       |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

32° 34' N. = 119° 56' W.

No. 3655 Date Aug 12 1883  
Machine. Reel. Mary No 2

Turns 134 Cor. + 57 Depth 891

Shot or lead 35 lbs.

Bottom

Bottom temperature 38.0

No. of thermometer 6155 Cor. + 0.2

Corrected temperature 38.2

Air 55 Surface 55 Drift

Trawl or dredge

| SOUNDING WIRE. |       | TURNS. | DREDGE ROPE. |     |
|----------------|-------|--------|--------------|-----|
| DOWN.          | UP.   |        | DOWN.        | UP. |
| 11 03 15       |       | 0      |              |     |
| 03 35          | 36.05 | 100    |              |     |
| 05 55          | 35.10 | 200    |              |     |
| 12 31          | 34.10 | 300    |              |     |
| 12 10          | 33.10 | 400    |              |     |
| 6.00           | 32.20 | 500    |              |     |
| 18.00          | 31.10 | 600    |              |     |
| 20.20          | 29.45 | 700    |              |     |
|                | 28.20 | 800    |              |     |
|                | 27.40 | 900    |              |     |
|                |       | 1000   |              |     |
|                |       | 1100   |              |     |
|                |       | 1200   |              |     |
|                |       | 1300   |              |     |
|                |       | 1400   |              |     |
|                |       | 1500   |              |     |
|                |       | 1600   |              |     |
|                |       | 1700   |              |     |
|                |       | 1800   |              |     |
|                |       | 1900   |              |     |
|                |       | 2000   |              |     |
|                |       | 2100   |              |     |
|                |       | 2200   |              |     |
|                |       | 2300   |              |     |
|                |       | 2400   |              |     |



|       |     |      |  |
|-------|-----|------|--|
|       |     | 2500 |  |
|       |     | 2600 |  |
|       |     | 2700 |  |
|       |     | 2800 |  |
|       |     | 2900 |  |
|       |     | 3000 |  |
|       |     | 3100 |  |
|       |     | 3200 |  |
|       |     | 3300 |  |
|       |     | 3400 |  |
|       |     | 3500 |  |
| 11.69 | 158 | 3600 |  |
| 536   | 101 | 3700 |  |
| 333   | 57  | 3800 |  |
|       | 834 | 3900 |  |
|       | 891 | 4000 |  |

# SERIAL TEMPERATURES.

| DEPTH.  | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|---------|-------|--------------|------|------------|
| Surface | 53-   |              |      | 55.0       |
| 25      |       |              |      |            |
| 5-30    | 53-   | 78570        | -0.4 | 54.6       |
| 10-100  | 54    | 63902        | -    | 54.2       |
| 200     |       |              |      |            |
| 300     |       |              |      |            |
| 400     |       |              |      |            |
| 500     |       |              |      |            |
| 600     |       |              |      |            |
| 700     |       |              |      |            |
| 800     |       |              |      |            |
| 900     |       |              |      |            |
| 1000    |       |              |      |            |

REMARKS:

*Sigs.*  
507.

No. *1190* Date *May 11 90*  
*Tanner* Machine. Reel.  
 Turns *222* Cor. + *6* Depth *146 fms*  
 Shot or lead *26 lb.*  
 Bottom *fine M.*  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| <i>1 57 30</i> |     | 0      |              |     |
| <i>19 30</i>   |     | 100    |              |     |
| <i>37 45</i>   |     | 200    |              |     |
|                |     | 300    |              |     |
|                |     | 400    |              |     |
|                |     | 500    |              |     |
|                |     | 600    |              |     |
|                |     | 700    |              |     |
|                |     | 800    |              |     |
|                |     | 900    |              |     |
|                |     | 1000   |              |     |
|                |     | 1100   |              |     |
|                |     | 1200   |              |     |
|                |     | 1300   |              |     |
|                |     | 1400   |              |     |
|                |     | 1500   |              |     |
|                |     | 1600   |              |     |
|                |     | 1700   |              |     |
|                |     | 1800   |              |     |
|                |     | 1900   |              |     |
|                |     | 2000   |              |     |
|                |     | 2100   |              |     |
|                |     | 2200   |              |     |
|                |     | 2300   |              |     |
|                |     | 2400   |              |     |

*Not for Recd.*  
*ST. C.*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

No. *11*Date *May 11 '96**Lucas* Machine.

Reel.

Turns *145* Cor. + *6*Depth *151 fms*Shot or lead *36 lb*Bottom *gn m.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

*Handwritten notes:*  
22 5  
100  
100

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

No.

Date

May 12

Machine.

Reel.

Turns

Cor. + 2

Depth

46 fms

Shot or lead

36 lbs

Bottom

gy. M.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE

DOWN.

UP.

TURNS.

DOWN.

UP.

6.34.00

6.36.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Not

for

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*Ad.* 37 41 10 - 72  
122 17 7 78

No. 3628 Dr. Date June 1<sup>st</sup> 1896  
Hand Lead. Machine. Reel.

Turns Cor. + Depth 18. feet

Shot or lead

Bottom Soft gr. m.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 57 Drift

Trawl or dredge Oyster

| SOUNDING WIRE |     | TURNS. | DREDGE ROPE. |      |
|---------------|-----|--------|--------------|------|
| DOWN.         | UP. |        | DOWN.        | UP.  |
|               |     | 0      | 7.00         | 7.20 |
|               |     | 100    | 7.05         | 7.15 |
|               |     | 200    |              |      |
|               |     | 300    |              |      |
|               |     | 400    |              |      |
|               |     | 500    |              |      |
|               |     | 600    |              |      |
|               |     | 700    |              |      |
|               |     | 800    |              |      |
|               |     | 900    |              |      |
|               |     | 1000   |              |      |
|               |     | 1100   |              |      |
|               |     | 1200   |              |      |
|               |     | 1300   |              |      |
|               |     | 1400   |              |      |
|               |     | 1500   |              |      |
|               |     | 1600   |              |      |
|               |     | 1700   |              |      |
|               |     | 1800   |              |      |
|               |     | 1900   |              |      |
|               |     | 2000   |              |      |
|               |     | 2100   |              |      |
|               |     | 2200   |              |      |
|               |     | 2300   |              |      |
|               |     | 2400   |              |      |



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

A few large murex  
A few clams.  
A few Argilla.

37 41 40 N  
122 17 50 W

No. 2619 D. Date June 18, 1882

Hand Pump Machine: Reel.

Turns . . . Cor. + . . . Depth 19 1/2 feet.

Shot or lead

Bottom Soft green M.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge Dredge

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |         |
|----------------|-----|--------|--------------|---------|
| DOWN.          | UP. |        | DOWN.        | UP.     |
|                |     | 0      | 7.15.00      | 8.13.15 |
|                |     | 100    | 7.51.15      | 8.11.00 |
|                |     | 200    |              |         |
|                |     | 300    |              |         |
|                |     | 400    |              |         |
|                |     | 500    |              |         |
|                |     | 600    |              |         |
|                |     | 700    |              |         |
|                |     | 800    |              |         |
|                |     | 900    |              |         |
|                |     | 1000   |              |         |
|                |     | 1100   |              |         |
|                |     | 1200   |              |         |
|                |     | 1300   |              |         |
|                |     | 1400   |              |         |
|                |     | 1500   |              |         |
|                |     | 1600   |              |         |
|                |     | 1700   |              |         |
|                |     | 1800   |              |         |
|                |     | 1900   |              |         |
|                |     | 2000   |              |         |
|                |     | 2100   |              |         |
|                |     | 2200   |              |         |
|                |     | 2300   |              |         |
|                |     | 2400   |              |         |

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

*Set back sheet ahead  
8 minutes at 7:45.00.*

## REMARKS:

*A few large crabs.  
A few small  
A few squid*

37 41 10 72  
122 17 20 78

No. 3630 912

Date Jan 11

Hand Lead Machine. Reel.

Turns Cor. + Depth 15 fms.

Shot or lead

Bottom Soft 911 16.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53 Surface 53 Drift

Trawl or dredge Dredge

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |         |
|----------------|-----|--------|--------------|---------|
| DOWN.          | UP. |        | DOWN.        | UP.     |
|                |     | 0      | 7.14         | 18.45   |
|                |     | 20     | 7.45         |         |
|                |     | 100    | 15.10        | 9.17.10 |
|                |     | 200    |              |         |
|                |     | 300    |              |         |
|                |     | 400    |              |         |
|                |     | 500    |              |         |
|                |     | 600    |              |         |
|                |     | 700    |              |         |
|                |     | 800    |              |         |
|                |     | 900    |              |         |
|                |     | 1000   |              |         |
|                |     | 1100   |              |         |
|                |     | 1200   |              |         |
|                |     | 1300   |              |         |
|                |     | 1400   |              |         |
|                |     | 1500   |              |         |
|                |     | 1600   |              |         |
|                |     | 1700   |              |         |
|                |     | 1800   |              |         |
|                |     | 1900   |              |         |
|                |     | 2000   |              |         |
|                |     | 2100   |              |         |
|                |     | 2200   |              |         |
|                |     | 2300   |              |         |
|                |     | 2400   |              |         |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*The first 2500 ft. was  
672.5000 ft.*

No. *1131*Date *June 1896*Machine *Hand*

Reel.

Turns

Cor. +

Depth *15 f.*

Shot or lead

Bottom *gr. M.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge *Cyprus*

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

UP.

0

*211*~~100~~

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

|  |      |      |
|--|------|------|
|  | 2500 |      |
|  | 2600 |      |
|  | 2700 |      |
|  | 2800 | 6.11 |
|  | 2900 |      |
|  | 3000 |      |
|  | 3100 |      |
|  | 3200 |      |
|  | 3300 |      |
|  | 3400 |      |
|  | 3500 |      |
|  | 3600 |      |
|  | 3700 |      |
|  | 3800 |      |
|  | 3900 |      |
|  | 4000 |      |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

NOT.

37 26 25 72  
122 20 10 71

No. 3632 Date *Dec 1 1876*  
*Hand lead* Machine Reel.

Turns Cor. + Depth *18 fms*

Shot or lead

Bottom *gn M*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *Oyster*

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE.    |                 |
|----------------|-----|--------|-----------------|-----------------|
| DOWN.          | UP. |        | DOWN.           | UP.             |
|                |     | 0      | <i>11-02.35</i> | <i>11 05</i>    |
|                |     | 50     |                 |                 |
|                |     | 100    | <i>04.50</i>    | <i>11 04 50</i> |
|                |     | 200    |                 |                 |
|                |     | 300    |                 |                 |
|                |     | 400    |                 |                 |
|                |     | 500    |                 |                 |
|                |     | 600    |                 |                 |
|                |     | 700    |                 |                 |
|                |     | 800    |                 |                 |
|                |     | 900    |                 |                 |
|                |     | 1000   |                 |                 |
|                |     | 1100   |                 |                 |
|                |     | 1200   |                 |                 |
|                |     | 1300   |                 |                 |
|                |     | 1400   |                 |                 |
|                |     | 1500   |                 |                 |
|                |     | 1600   |                 |                 |
|                |     | 1700   |                 |                 |
|                |     | 1800   |                 |                 |
|                |     | 1900   |                 |                 |
|                |     | 2000   |                 |                 |
|                |     | 2100   |                 |                 |
|                |     | 2200   |                 |                 |
|                |     | 2300   |                 |                 |
|                |     | 2400   |                 |                 |



|  |      |  |
|--|------|--|
|  | 2500 |  |
|  | 2600 |  |
|  | 2700 |  |
|  | 2800 |  |
|  | 2900 |  |
|  | 3000 |  |
|  | 3100 |  |
|  | 3200 |  |
|  | 3300 |  |
|  | 3400 |  |
|  | 3500 |  |
|  | 3600 |  |
|  | 3700 |  |
|  | 3800 |  |
|  | 3900 |  |
|  | 4000 |  |

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

# REMARKS:

*1. ...*

507. *J.H.*

37° 39' 0" N  
122° 20' 15" W

No. 5633 Date *June 1, 1880*

*Hand lead* Machine. Reel.

Turns Cor. + Depth 18 ft.

Shot or lead

Bottom *gn M*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *Cyprus*

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE.   |                |
|----------------|-----|--------|----------------|----------------|
| DOWN.          | UP. |        | DOWN.          | UP.            |
|                |     | 0      | <i>11 35.5</i> | <i>42 11.0</i> |
|                |     | 100    | <i>31.5</i>    | <i>31.5</i>    |
|                |     | 200    |                |                |
|                |     | 300    |                |                |
|                |     | 400    |                |                |
|                |     | 500    |                |                |
|                |     | 600    |                |                |
|                |     | 700    |                |                |
|                |     | 800    |                |                |
|                |     | 900    |                |                |
|                |     | 1000   |                |                |
|                |     | 1100   |                |                |
|                |     | 1200   |                |                |
|                |     | 1300   |                |                |
|                |     | 1400   |                |                |
|                |     | 1500   |                |                |
|                |     | 1600   |                |                |
|                |     | 1700   |                |                |
|                |     | 1800   |                |                |
|                |     | 1900   |                |                |
|                |     | 2000   |                |                |
|                |     | 2100   |                |                |
|                |     | 2200   |                |                |
|                |     | 2300   |                |                |
|                |     | 2400   |                |                |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*Nothing seen*  
*11. 6*

54° 51' N  
167° 27' W

No. *545* Date *July 5, 1881*  
*Sigsbee* Machine. Reel. *No. 1*  
 Turns *600* Cor. + *44* Depth *544 fms.*  
 Shot or lead *30 lbs*  
 Bottom *br S & volcanic S*  
 Bottom temperature *36.2*  
 No. of thermometer *62564* Cor. + *0.1*  
 Corrected temperature *36.3*  
 Air *43* Surface *43* Drift *2 by*  
 Trawl or dredge *11 ft beam. 5 dip net. 15 min.*

## SOUNDING WIRE.

## DREDGE ROPE.

| DOWN.        |  | UP.          | TURNS. | DOWN.          |  | UP.            |
|--------------|--|--------------|--------|----------------|--|----------------|
|              |  |              |        |                |  |                |
| <i>05.30</i> |  | <i>22.20</i> | 0      | <i>4.55.00</i> |  | <i>5.00.00</i> |
| <i>05.50</i> |  | <i>21.19</i> | 100    | <i>4.52.40</i> |  | <i>5.00.00</i> |
| <i>08.07</i> |  | <i>20.52</i> | 200    | <i>4.47.07</i> |  | <i>5.00.00</i> |
| <i>09.28</i> |  | <i>19.32</i> | 300    | <i>5.41.50</i> |  | <i>5.00.00</i> |
| <i>10.48</i> |  | <i>18.25</i> | 400    | <i>5.41.50</i> |  | <i>5.00.00</i> |
| <i>12.05</i> |  | <i>17.33</i> | 500    | <i>5.40.45</i> |  | <i>5.00.00</i> |
| <i>13.22</i> |  | <i>16.28</i> | 600    | <i>08.10</i>   |  | <i>5.00.00</i> |
| <i>13.47</i> |  | <i>16.11</i> | 700    | <i>13.20</i>   |  | <i>5.00.00</i> |
|              |  |              | 800    | <i>16.11</i>   |  | <i>5.00.00</i> |
|              |  |              | 900    | <i>18.11</i>   |  | <i>5.00.00</i> |
|              |  |              | 1000   | <i>22.11</i>   |  | <i>5.00.00</i> |
|              |  |              | 1100   | <i>22.11</i>   |  | <i>5.00.00</i> |
|              |  |              | 1200   | <i>22.11</i>   |  | <i>5.00.00</i> |
|              |  |              | 1300   | <i>22.11</i>   |  | <i>5.00.00</i> |
|              |  |              | 1400   | <i>22.11</i>   |  | <i>5.00.00</i> |
|              |  |              | 1500   |                |  |                |
|              |  |              | 1600   |                |  |                |
|              |  |              | 1700   |                |  |                |
|              |  |              | 1800   |                |  |                |
|              |  |              | 1900   |                |  |                |
|              |  |              | 2000   |                |  |                |
|              |  |              | 2100   |                |  |                |
|              |  |              | 2200   |                |  |                |
|              |  |              | 2300   |                |  |                |
|              |  |              | 2400   |                |  |                |

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3800  
3900  
4000

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550  
554.9  
1200  
1120  
1040  
6.00  
5.00

SERIAL TEMPERATURES.

| DEPTH. | TEMP.                    | NO. OF THER. | COR. | COR. TEMP. |
|--------|--------------------------|--------------|------|------------|
| 25     |                          |              |      |            |
| 50     |                          |              |      |            |
| 100    |                          |              |      |            |
| 200    | few very small crustacea |              |      |            |
| 300    |                          |              |      |            |
| 400    |                          |              |      |            |
| 500    |                          |              |      |            |
| 600    |                          |              |      |            |
| 700    |                          |              |      |            |
| 800    |                          |              |      |            |
| 900    |                          |              |      |            |
| 1000   |                          |              |      |            |

\* See next page REMARKS:

607.

54 51 N  
167 4 77

No. 3655-H<sup>2</sup>

Date

Machine.

Recl.

Turns Cor. +

Depth

Shot or lead 30 lb

Bottom

Bottom temperature 36.37

No. of thermometer 6256

Cor. +0.1

Corrected temperature 36.47

Air 4

Surface 23

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

| DOWN. | UP.  | TURNS. | DOWN. | UP. |
|-------|------|--------|-------|-----|
| 11.10 | 2.10 | 0      |       |     |
|       | 2.15 | 100    |       |     |
|       | 2.20 | 200    |       |     |
|       | 2.25 | 300    |       |     |
|       | 2.30 | 400    |       |     |
|       | 2.35 | 500    |       |     |
|       | 2.40 | 600    |       |     |
|       | 2.45 | 700    |       |     |
|       |      | 800    |       |     |
|       |      | 900    |       |     |
|       |      | 1000   |       |     |
|       |      | 1100   |       |     |
|       |      | 1200   |       |     |
|       |      | 1300   |       |     |
|       |      | 1400   |       |     |
|       |      | 1500   |       |     |
|       |      | 1600   |       |     |
|       |      | 1700   |       |     |
|       |      | 1800   |       |     |
|       |      | 1900   |       |     |
|       |      | 2000   |       |     |
|       |      | 2100   |       |     |
|       |      | 2200   |       |     |
|       |      | 2300   |       |     |
|       |      | 2400   |       |     |

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3900  
4000

155  
62.6 113  
3.22  
25  
62.6  
1.0

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

\* In next page  
REMARKS: 1000 fathoms.  
Gastropods: 1 sp., numerous,  
1 spec. *Solidus*, - none, 1 dog, and 2 small  
5 small, no brach. 2 dog shells, 1 small.  
Fishes: 1 *Antimora*, 1 *Sargassum*,  
Many *Macrurus* 5 species. 1 *Stethurus*  
1 *Pylodiscus*, 3 *Myxipala*.

*TKH*  
507.

56° 19' 30" N  
169° 28' 00" W

No. *Hy 3656* Date *July 8 1886*  
*Tanner* Machine. Reel.

Turns *76* Cor. + *1* Depth *77 fms*

Shot or lead *26 lb*

Bottom *bl m*

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

| SOUNDING WIRE. |     | TURNS.    | DREDGE ROPE. |     |
|----------------|-----|-----------|--------------|-----|
| DOWN.          | UP. |           | DOWN.        | UP. |
| <i>11 00</i>   |     | 0         |              |     |
|                |     | <i>16</i> |              |     |
|                |     | 100       |              |     |
|                |     | 200       |              |     |
|                |     | 300       |              |     |
|                |     | 400       |              |     |
|                |     | 500       |              |     |
|                |     | 600       |              |     |
|                |     | 700       |              |     |
|                |     | 800       |              |     |
|                |     | 900       |              |     |
|                |     | 1000      |              |     |
|                |     | 1100      |              |     |
|                |     | 1200      |              |     |
|                |     | 1300      |              |     |
|                |     | 1400      |              |     |
|                |     | 1500      |              |     |
|                |     | 1600      |              |     |
|                |     | 1700      |              |     |
|                |     | 1800      |              |     |
|                |     | 1900      |              |     |
|                |     | 2000      |              |     |
|                |     | 2100      |              |     |
|                |     | 2200      |              |     |
|                |     | 2300      |              |     |
|                |     | 2400      |              |     |



|     |      |  |
|-----|------|--|
|     | 2500 |  |
|     | 2600 |  |
|     | 2700 |  |
|     | 2800 |  |
|     | 2900 |  |
|     | 3000 |  |
|     | 3100 |  |
|     | 3200 |  |
|     | 3300 |  |
|     | 3400 |  |
|     | 3500 |  |
| 526 | 3600 |  |
|     | 3700 |  |
|     | 3800 |  |
|     | 3900 |  |
|     | 4000 |  |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

507.

56 25 00 N  
169 36 00 W

No. 3657 Hyd. Date: July 5, 1896  
Tanner Machine. Reel.

Turns 53 Cor. + 1 Depth 54

Shot or lead 26 lbs.

Bottom dk gy S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

| SOUNDING WIRE. |          | TURNS. | DREDGE ROPE. |     |
|----------------|----------|--------|--------------|-----|
| DOWN.          | UP.      |        | DOWN.        | UP. |
| 11 57 25       | 5 50     | 0      |              |     |
| 57 10          | 11 57 10 | 100    |              |     |
|                |          | 200    |              |     |
|                |          | 300    |              |     |
|                |          | 400    |              |     |
|                |          | 500    |              |     |
|                |          | 600    |              |     |
|                |          | 700    |              |     |
|                |          | 800    |              |     |
|                |          | 900    |              |     |
|                |          | 1000   |              |     |
|                |          | 1100   |              |     |
|                |          | 1200   |              |     |
|                |          | 1300   |              |     |
|                |          | 1400   |              |     |
|                |          | 1500   |              |     |
|                |          | 1600   |              |     |
|                |          | 1700   |              |     |
|                |          | 1800   |              |     |
|                |          | 1900   |              |     |
|                |          | 2000   |              |     |
|                |          | 2100   |              |     |
|                |          | 2200   |              |     |
|                |          | 2300   |              |     |
|                |          | 2400   |              |     |

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
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3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*Position*  
*Not accurately known*

No.

Date

*July 8, 98**Clamnet*

Machine.

Reel.

Turns *23* Cor. + *0*Depth *23 fms*Shot or lead *26 lb*Bottom *S. & brk sh.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

| DOWN.          | UP.            | TURNS. | DOWN. | UP. |
|----------------|----------------|--------|-------|-----|
| <i>1.12.30</i> | <i>1.13.12</i> | 0      |       |     |
| <i>12.42</i>   | <i>12.50</i>   | 100    |       |     |
|                |                | 200    |       |     |
|                |                | 300    |       |     |
|                |                | 400    |       |     |
|                |                | 500    |       |     |
|                |                | 600    |       |     |
|                |                | 700    |       |     |
|                |                | 800    |       |     |
|                |                | 900    |       |     |
|                |                | 1000   |       |     |
|                |                | 1100   |       |     |
|                |                | 1200   |       |     |
|                |                | 1300   |       |     |
|                |                | 1400   |       |     |
|                |                | 1500   |       |     |
|                |                | 1600   |       |     |
|                |                | 1700   |       |     |
|                |                | 1800   |       |     |
|                |                | 1900   |       |     |
|                |                | 2000   |       |     |
|                |                | 2100   |       |     |
|                |                | 2200   |       |     |
|                |                | 2300   |       |     |
|                |                | 2400   |       |     |

|     |    |      |  |
|-----|----|------|--|
|     |    | 2500 |  |
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|     |    | 2700 |  |
|     |    | 2800 |  |
|     |    | 2900 |  |
|     |    | 3000 |  |
| 525 | 11 | 3100 |  |
|     |    | 3200 |  |
|     |    | 3300 |  |
|     |    | 3400 |  |
|     |    | 3500 |  |
|     |    | 3600 |  |
|     |    | 3700 |  |
|     |    | 3800 |  |
|     |    | 3900 |  |
|     |    | 4000 |  |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

No. *3657* Date *Jan 5 1886*  
*Tanner* Machine. Reel.  
 Turns *24* Cor. + *0* Depth *24 fms.*  
 Shot or lead *26 lb.*  
 Bottom *ck. S. M. gy.*  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air *24* Surface *123* Drift *S. W. 0.5 mi.*  
 Trawl or dredge *11 ft. beam.*

| SOUNDING WIRE. |                | TURNS.      | DREDGE ROPE. |                |
|----------------|----------------|-------------|--------------|----------------|
| DOWN.          | UP.            |             | DOWN.        | UP.            |
| <i>15 30</i>   | <i>15 55</i>   | <i>0</i>    | <i>1 20</i>  | <i>3 00</i>    |
| <i>15 30</i>   | <i>1 15 40</i> | <i>100</i>  | <i>46.00</i> | <i>2 04.30</i> |
|                |                | <i>1 30</i> | <i>57.00</i> | <i>1 55.00</i> |
|                |                | <i>200</i>  |              |                |
|                |                | 300         |              |                |
|                |                | 400         |              |                |
|                |                | 500         |              |                |
|                |                | 600         |              |                |
|                |                | 700         |              |                |
|                |                | 800         |              |                |
|                |                | 900         |              |                |
|                |                | 1000        |              |                |
|                |                | 1100        |              |                |
|                |                | 1200        |              |                |
|                |                | 1300        |              |                |
|                |                | 1400        |              |                |
|                |                | 1500        |              |                |
|                |                | 1600        |              |                |
|                |                | 1700        |              |                |
|                |                | 1800        |              |                |
|                |                | 1900        |              |                |
|                |                | 2000        |              |                |
|                |                | 2100        |              |                |
|                |                | 2200        |              |                |
|                |                | 2300        |              |                |
|                |                | 2400        |              |                |

Position Zapadne Bay  
St. George Island, Alaska

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

# REMARKS:

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99. ...  
100. ...

No. *2455* Date *Aug 18 78*  
*man* Machine. Reel.  
 Turns *18* Cor. + *0* Depth *18 fms.*  
 Shot or lead *26 lbs*  
 Bottom *Rock*  
 Bottom temperature *42.2*  
 No. of thermometer *66665* Cor. *-*  
 Corrected temperature *42.2*  
 Air *41* Surface *30* Drift *—*  
 Trawl or dredge *5 ft trawl*

## SOUNDING WIRE.

## DREDGE ROPE.

| SOUNDING WIRE. |             | TURNS.     | DREDGE ROPE.   |                |
|----------------|-------------|------------|----------------|----------------|
| DOWN.          | UP.         |            | DOWN.          | UP.            |
| <i>5.00</i>    | <i>5.00</i> | 0          | <i>8.42.20</i> | <i>09.20</i>   |
|                |             | <i>100</i> | <i>17</i>      | <i>9.06.15</i> |
|                |             | 200        |                |                |
|                |             | 300        |                |                |
|                |             | 400        |                |                |
|                |             | 500        |                |                |
|                |             | 600        |                |                |
|                |             | 700        |                |                |
|                |             | 800        |                |                |
|                |             | 900        |                |                |
|                |             | 1000       |                |                |
|                |             | 1100       |                |                |
|                |             | 1200       |                |                |
|                |             | 1300       |                |                |
|                |             | 1400       |                |                |
|                |             | 1500       |                |                |
|                |             | 1600       |                |                |
|                |             | 1700       |                |                |
|                |             | 1800       |                |                |
|                |             | 1900       |                |                |
|                |             | 2000       |                |                |
|                |             | 2100       |                |                |
|                |             | 2200       |                |                |
|                |             | 2300       |                |                |
|                |             | 2400       |                |                |



57° 5' 40" N  
176 25 00 W

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

N Long. outer Id.  
South.  
Telegraph Hill ss with  
Isletoi R. NE 3/4 N.

525 11

11

508

# SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25     |       |              |      |            |
| 50     |       |              |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

2 bottles, Sand Dollars, few  
shells, few small Mollusks

No. *3653* Date *Aug 18*  
*Tanner* Machine. Reel.  
 Turns *25* Cor. + *0* Depth *25 fms*  
 Shot or lead *25*  
 Bottom *gy. S.*  
 Bottom temperature *39.0*  
 No. of thermometer *66665* Cor. *-*  
 Corrected temperature *39.0*  
 Air *41* Surface *38* Drift  
 Trawl or dredge

| SOUNDING WIRE. |              | TURNS. | DREDGE ROPE. |     |
|----------------|--------------|--------|--------------|-----|
| DOWN.          | UP.          |        | DOWN.        | UP. |
|                | <i>17.20</i> | 0      |              |     |
|                |              | 100    |              |     |
|                |              | 200    |              |     |
|                |              | 300    |              |     |
|                |              | 400    |              |     |
|                |              | 500    |              |     |
|                |              | 600    |              |     |
|                |              | 700    |              |     |
|                |              | 800    |              |     |
|                |              | 900    |              |     |
|                |              | 1000   |              |     |
|                |              | 1100   |              |     |
|                |              | 1200   |              |     |
|                |              | 1300   |              |     |
|                |              | 1400   |              |     |
|                |              | 1500   |              |     |
|                |              | 1600   |              |     |
|                |              | 1700   |              |     |
|                |              | 1800   |              |     |
|                |              | 1900   |              |     |
|                |              | 2000   |              |     |
|                |              | 2100   |              |     |
|                |              | 2200   |              |     |
|                |              | 2300   |              |     |
|                |              | 2400   |              |     |

$\left\{ \begin{array}{l} 57 \ 6 \ 45 \rightarrow 12 \\ 170 \ 25 \ 00 \rightarrow 11 \end{array} \right.$

OK

525  
 24  
 501

|      |            |          |
|------|------------|----------|
| 2500 | Outer Sta. | S 1/4 E. |
| 2600 | Ref Pt.    | E 1/2 N. |
| 2700 |            |          |
| 2800 |            |          |
| 2900 |            |          |
| 3000 |            |          |
| 3100 |            |          |
| 3200 |            |          |
| 3300 |            |          |
| 3400 |            |          |
| 3500 |            |          |
| 3600 |            |          |
| 3700 |            |          |
| 3800 |            |          |
| 3900 |            |          |
| 4000 |            |          |

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| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

*J. K. H.*

No. *3637* Date *July 18, 1896*  
*Tanner* Machine. Reel.

Turns *32* Cor. + *0* Depth *32 fms*

Shot or lead *26 lbs.*

Bottom *crs G*

Bottom temperature *39.*

No. of thermometer *66665* Cor. *-*

Corrected temperature *39°.*

Air *41* Surface *38* Drift *-*

Trawl or dredge *8 ft trawl*

SOUNDING WIRE.

DREDGE ROPE.

| DOWN.          | UP.            | TURNS.      | DOWN.          | UP.             |
|----------------|----------------|-------------|----------------|-----------------|
| <i>9.35.30</i> | <i>35.25</i>   | <i>0</i>    | <i>9.38.10</i> | <i>16.20</i>    |
| <i>35.50</i>   | <i>9.35.55</i> | <i>60</i>   | <i>44.10</i>   | <i>10.02.55</i> |
|                |                | <i>300</i>  |                |                 |
|                |                | <i>200</i>  |                |                 |
|                |                | <i>300</i>  |                |                 |
|                |                | <i>400</i>  |                |                 |
|                |                | <i>500</i>  |                |                 |
|                |                | <i>600</i>  |                |                 |
|                |                | <i>700</i>  |                |                 |
|                |                | <i>800</i>  |                |                 |
|                |                | <i>900</i>  |                |                 |
|                |                | <i>1000</i> |                |                 |
|                |                | <i>1100</i> |                |                 |
|                |                | <i>1200</i> |                |                 |
|                |                | <i>1300</i> |                |                 |
|                |                | <i>1400</i> |                |                 |
|                |                | <i>1500</i> |                |                 |
|                |                | <i>1600</i> |                |                 |
|                |                | <i>1700</i> |                |                 |
|                |                | <i>1800</i> |                |                 |
|                |                | <i>1900</i> |                |                 |
|                |                | <i>2000</i> |                |                 |
|                |                | <i>2100</i> |                |                 |
|                |                | <i>2200</i> |                |                 |
|                |                | <i>2300</i> |                |                 |
|                |                | <i>2400</i> |                |                 |

*Position by cross bearings*  
*At day not over.*

{ 57 6 30 N  
170 28 00 W

OK

|      |             |       |
|------|-------------|-------|
| 2500 | Toletor Pt. | NE.   |
| 2600 | Sea Lion Rk | E x N |
| 2700 | RJ Octa Id  | SSG.  |
| 2800 |             |       |
| 2900 |             |       |
| 3000 |             |       |
| 3100 |             |       |
| 3200 |             |       |
| 3300 |             |       |
| 3400 |             |       |
| 3500 |             |       |
| 3600 |             |       |
| 3700 |             |       |
| 3800 |             |       |
| 3900 |             |       |
| 4000 |             |       |

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| 300    |       |              |      |            |
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| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

REMARKS:

Broken shells, few starfish, few  
 sculpin, few shrimp  
 Trigloporus, ~~Heterogadus~~  
 Arctodius pacificus  
 Aspidophoroides bartoni  
 Eleutherozoa

Drift

No.

Date

Machine. Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

MEASURING

TURNS.

DOWN.

UP.

25

~~25~~ 25

0 0

50

50 1/2

0 100

75

75 1/2

0 200

100

100

0 300

25

25

0 400

50

51

1 500

75

76

1 600

200

201

1 700

25

26

1 800

50

52

2 900

75

77

2 1000

300

302

2 1100

25

27

2 1200

50

53

3 1300

75

78

3 1400

400

403

3 1500

25

29+

4 1600

50

54

4 1700

75

80

4 1800

500

505

5 1900

25

30

5 2000

30

35

5 2100

2200

2300

2400

Splice at  
260 fms -